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(54) Metal halide lamp

(57) The color temperature of irradiation light from a metal halide lamp comprising an arc tube filled with metal halide, mercury and inert gas, electrodes at the opposite ends of the arc tube and a glass housing of housing said arc tube is lowered to 2000 - 6000 K by a selective transmission coating. The selective transmission coating which transmits irradiation light of longer wavelengths generated between said electrodes and reflects the irradiation light of shorter wavelengths is applied to the outer

surface of said arc tube. The selective transmission coating transmits the irradiation light of wavelengths longer than nearly 600 nm and reflects the irradiation light of wavelengths shorter than nearly 600 nm. This coating is particularly effective for a metal halide lamp filled with metal halide which comprises dysprosium, neodymium and iode of cesium and the color temperature of the irradiation light inside the arc tube is 6000 -7500 K.



EUROPEAN SEARCH REPORT

Application Number EP 95 30 3215

Category	Citation of document with in of relevant pas	dication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Inc.CL6)
P,X	DE-A-43 18 905 (PATI December 1994	RA PATENT TREUHAND) 8	1-3	H01J61/40 H01J61/82
4		- column 61; figure 5	9	N010017 52
	* page 4, line 46 - tables *	page 6, line 28;		
\	EP-A-0 418 784 (HIT/ * page 3, line 1 - * page 3, line 39 - figures 2,3; tables	page 4, line 37;	11	
•	EP-A-0 400 980 (IWAS December 1990 * abstract *	SAKI ELECTRIC CO LTD) 5	4,10	
		∞		
	•			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
				H01J
		·		
	The present search report has be	en drawn up for all claims		
	Place of search	Dute of completion of the search		Examiner
	THE HAGUE	28 December 1995	Sch	aub, G
X : part Y : part	CATEGORY OF CITED DOCUMEN icularly relevant if taken alone icularly relevant if combined with another unent of the same category	E : earlier patent do ufter the filing d	cument, but publ ate in the application	ished on, or

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